Abstract

In an image processor, an image processing method, and an image processing program recording medium according to the present invention, intensity F of new pixel is calculated by a formula of F=A+(i/2)(E-D)+(j/2)(C-B) on the basis of intensity A of a pixel of interest 205, intensity B of an original pixel 202 adjacent at upper side of a pixel of interest 205, intensity C of an original pixel 208 adjacent at lower side of a pixel of interest 205, intensity D of an original pixel 204 adjacent at left side of a pixel of interest 205, and intensity E of an original pixel 206 adjacent at the right side of a pixel of interest 205.

In these image processor, image processing method and image processing program-recording medium, it is possible to reduce the operation amount to improve processing speed, and further, obtain an high-quality image with sharpness, in performing conversion low-resolution image to high-resolution image.

(54) **Title:** IMAGE PROCESSING DEVICE, IMAGE PROCESSING METHOD, IMAGE-PROCESSING PROGRAM RECORDED MEDIUM

(54) 発明の名称: 画像処理装置、画像処理方法、及び画像処理プログラム記録媒体
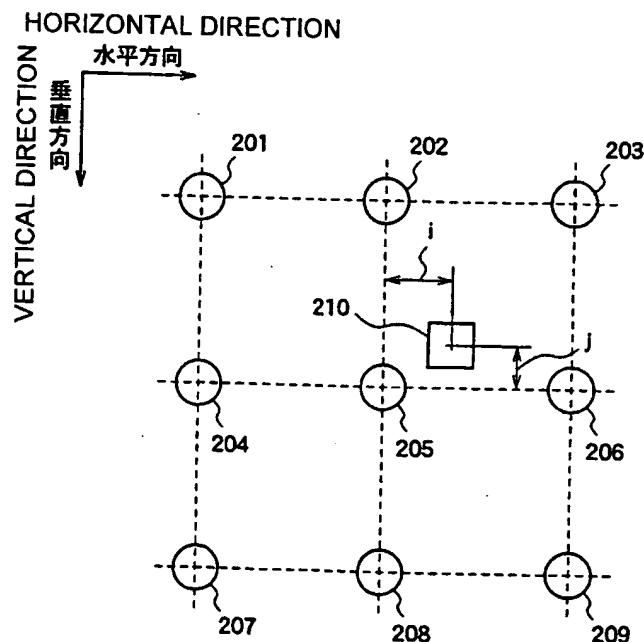
(57) **Abstract:** From the luminance A of a pixel (205) being presently dealt with, the luminance B of the pixel (202) up adjacent to the pixel (205), the luminance C of the pixel (208) down adjacent to the pixel (205), the luminance D of the pixel (204) left adjacent to the pixel (205), the luminance E of the pixel (206) right adjacent to the pixel (205), and the position (i, j) of the next pixel (210), the luminance F of the next pixel (210) is given by $F = A+(i/2)(E-D)+(j/2)(C-B)$. When a low-resolution image is converted to a high-resolution image, the computational complexity is low, and the processing rate is high, thereby forming a sharp image.